**GBNY CHECKLIST**

**BEFORE ENGINE START**

Preflight inspection……… Complete

Baggage…………………………Secure

PAX Briefing………………… Complete

Seatbelts……….……………… Secure

Door and Baggage Door…Closed & latched

Flaps…………………………….. Up

Electrics/Radios…………… Off

Circuit breakers…………… In

Hobbs…………………………… Note time

SPOT Tracker ….……………. ON

**ENGINE START**

Brakes……..…………………… Set

Fuel selector………………… Fullest Tank

Throttle………………………… Open 1/4 inch

Mixture………………………… Rich

Carb Heat…………………… Cold

Prime……………As required (No prime when hot)

Prop area……………………… Clear

Master………………………… On

Fuel Pump……………………. On

Beacon…………………………. On

Magnetos…………………… Start, 800 RPM

Oil pressure………………… Green, 1000 RPM

**PRE TAXI**

Lights………………………… As required

Radio Master……………….. On

Intercom……………………… Set

Transponder………………… Standby, 1200 Avionics…….………………… On, set, Radio Call

Altimeter / Heading……… Set

Brakes………………………… Check

Flight instruments………… Taxi check

**RUN-UP**

Aircraft………………………… Clear behind/Into wind Park Brakes…….…………………… Set

Throttle………………………… 2000 RPM

Magnetos………Max drop 175 RPM / Max diff. 50 RPM

Fuel Pump……………………. Off

Fuel Pressure……………… Check

Oil Pressure and Temp… Green

Annunciator Pannel ……… Press Test

Ammeter……………………… Check

Suction Gauge……………… Check 5HG +\- 1

Mixture………………………… Check

Carb Heat……………………… On

Min. Idle ………………………. Smooth

Carb Heat ……………………. Off

Throttle………………………… 1000 RPM

**PRE TAKE-OFF**

Door/window/…………….. Closed/Locked Seatbelts……………………… Secure

Fuel selector………………… Fullest Tank

Auto Pilot……………………… Off

Magnetos…………………… Both

Primer………………………… Locked

Mixture………………………… Rich below 5000’

Throttle friction…………… Set

Carb heat……………………… Cold

Controls……………………… Full, free & correct

Electric Trim………………… Check

Elevator Trim……………… Set for T/O

Rudder Trim…………………. Set for T/O

Flaps…………………… Zero for normal/25’ For short

Master………………………… On

Fuel Pump…………………… On

Lights…………………………… As required

Flight Instruments………… Set

Avionics…………............... As required

PAX safety review........... Complete

Crew T/O Briefing………... Complete

**AT HOLD LINE**

Time…………………………… Note time on take-off Radio………………………… Radio Call Transponder………………… ALT

**TAKE OFF – Normal**

RPM, Oil pres., Airspeed. Check

Rotate............................. 45-55Kts

Climb…………………………… VX 63knts

 Vy 79knts

Cruise Climb…………………. 87knts

Max EGT full power………. 1400’

**CRUISE**

Fuel pump…………………. Off

Fuel Pressure…………….. Check

Power........................... 2200 – 2700 RPM Mixture......................... Lean to max 1350’

Oil Temp / Pressure....... Check

**PRE LANDING**

PAX Briefing………………… Complete

Master………………………… On

Fuel Pump………………….. On

Lights…………………………… As required

Engine Instruments……… Check

Fuel……………………………… Fullest tank

Magnetos……………………… Both

Primer………………………… Locked

Mixture………………………… Rich

Carb Heat…………………… As Required

Belts/Doors………………… Secure

Brakes………………………… Check pressure

Flaps (Below 103 KIAS)… Normal 25’-40’

Normal Airspeed………… 80 KIAS Downwind

 70 KIAS Base/Final

 65 KIAS Final

 63 KIAS Full Flap

**POST LANDING**

Transponder………………… Off

Flaps…………………………… Up

Carb Heat…………………… Cold

Landing light………………… Off

Radio…………………………… Radio Call

Time…………………………… Note landing time

Fuel Pump…………………… Off

**SHUT DOWN**

ELT light .......................... Off

Avionics / Electrics……….. All off

Throttle………………………… 800 rpm

Magnetos…………………….. Live mag check Mixture………………………… Idle cut-off Magnetos…………………….. Off, key out Master…………………………. Off

Hobbs…………………………… Note time

Spot Tracker…………………. Off

**CLOSE YOUR FLIGHT PLAN**

**OPERATING SPEEDS**

Vr (Flaps Up) 45-55 KIAS

Vr (Flaps 25) 40-53

Vx…………… 63

Vy…………… 79

Va…………… 111

 (Approx 104 with 2 persons and 34gal fuel)

Vs…………… 50

Vso…………… 44

Best Glide… 73

Vfe…………… 103

Vno…………… 126

Vne…………… 160

Approach…. 63 (Full Flap)